

Applicants copy

Appended B

ALIGNMENTS

RESULT 1

US-09-489-847-89

Sequence 89, Application US/09489847
 Patent No. 6476195
 GENERAL INFORMATION:
 APPLICANT: Rosen et al
 TITLE OF INVENTION: 98 Human Secreted Proteins
 FILE REFERENCE: P2031P1
 CURRENT APPLICATION NUMBER: US/09/489,847
 EARLIER FILING DATE: 2000-01-24
 EARLIER APPLICATION NUMBER: PCT/US99/17130
 EARLIER FILING DATE: 1998-07-29
 EARLIER APPLICATION NUMBER: 60/094,657
 EARLIER FILING DATE: 1998-07-30
 EARLIER APPLICATION NUMBER: 60/095,486
 EARLIER FILING DATE: 1998-08-05
 EARLIER APPLICATION NUMBER: 60/096,319
 EARLIER FILING DATE: 1998-08-12
 EARLIER APPLICATION NUMBER: 60/095,454
 EARLIER FILING DATE: 1998-08-06
 EARLIER APPLICATION NUMBER: 60/095,455
 EARLIER FILING DATE: 1998-08-06
 NUMBER OF SEQ ID NOS: 376
 SOFTWARE: Patentin Ver. 2.0
 SEQ ID NO 89
 LENGTH: 1342
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-489-847-89

Query Match 98.0%; Score 1231.6; DB 4; Length 1342;
 Best Local Similarity 99.6%; Pred. No. 4.3e-284;
 Matches 1245; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

8 GGGCGCGGGTGAAGAGCGCATTTGATGACGCTGCGCGCGCCCTCGAGGCGCGCGAGCC 67
 12 GGGCGCGGGTGAAGAGCGCATTTGATGACGCTGCGCGCGCCCTCGAGGCGCGAG-C 70
 68 AGAGCGTGAACACGTTCT 127
 71 AGAGCGTGAACACGTTCT 130
 128 GCGCGGAGCGCATTCGAGCT 187
 131 GCGCGGAGCGCATTCGAGCT 190
 188 GCTGCT 247
 191 GCTGCT 250
 248 GCGAGAGCGCGCT 307
 251 GCGAGAGCGCGCT 310
 308 AGGCGCAGAGAGGCT 367
 311 AGGCGCAGAGAGGCT 370
 368 AGGCGCAGAGAGGCT 427
 371 AGGCGCAGAGAGGCT 430
 428 CTTTGAAGAGGCT 487
 431 CTTTGAAGAGGCT 490
 488 CATAGATCTTGGGAAATTTGGGAGTGAACATTTAACAAGTGGTCAATTAAGTCTCT 547

491 CATAGATCTTGGGAAATTTGGGAGTGAACATTTAACAAGTGGTCAATTAAGTCTCT 550
 548 AAGAGTTTGGTCAAGGCTCACTTGGCTAAATGAGAAATGACAGGCTG 607
 551 AAGAGTTTGGTCAAGGCTCACTTGGCTAAATGAGAAATGACAGGCTG 610
 608 GATTTCAATTCATGAGAGCTGAAGTTCAGAGCTCTTCCATGAGCTTAATTA 667
 611 GATTTCAATTCATGAGAGCTGAAGTTCAGAGCTCTTCCATGAGCTTAATTA 670
 668 TTTGACCAAGAGAGCTGAAGTTCAGAGCTCTTCCATGAGCTTAATTA 727
 671 TTTGACCAAGAGAGCTGAAGTTCAGAGCTCTTCCATGAGCTTAATTA 730
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 731 GGAAGACTTTGTGAAGAGTTCAGAGCTGAAGTTCAGAGCTCTTCCATGAGCTTAATTA 790
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 791 TTTGACCAAGAGAGCTGAAGTTCAGAGCTCTTCCATGAGCTTAATTA 850
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 1151 TTTCTTCAATTCATTCCTTCAATCAAAAGTGTTCATATTTTGTAGTTAGTTAGTTAGTTAG 1210
 1208 AATGTTAAGATTTTATTTATCTGTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1257
 1211 AATGTTAAGATTTTATTTATCTGTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1260

RESULT 2

US-09-489-847-124

Sequence 124, Application US/09489847
 Patent No. 6476195
 GENERAL INFORMATION:
 APPLICANT: Rosen et al
 TITLE OF INVENTION: 98 Human Secreted Proteins
 FILE REFERENCE: P2031P1
 CURRENT APPLICATION NUMBER: US/09/489,847
 EARLIER FILING DATE: 2000-01-24
 EARLIER APPLICATION NUMBER: PCT/US99/17130
 EARLIER FILING DATE: 1998-07-29
 EARLIER APPLICATION NUMBER: 60/094,657
 EARLIER FILING DATE: 1998-07-30
 EARLIER APPLICATION NUMBER: 60/095,486
 EARLIER FILING DATE: 1998-08-05
 EARLIER APPLICATION NUMBER: 60/096,319
 EARLIER FILING DATE: 1998-08-12
 EARLIER APPLICATION NUMBER: 60/095,454
 EARLIER FILING DATE: 1998-08-06
 EARLIER APPLICATION NUMBER: 60/095,455
 EARLIER FILING DATE: 1998-08-06

Mon Dec

Appendix 2
Applications with

QY 21 LeuLeuGlnLeuProAlaProSerSerAlaSerGlnIleProIleGlnIleVala 40
 DB 61 CTGCTGCAAGCTGCGCCGCGCTGAGCGCTCTGAGATCCCAAGGGAGCAAAAGGCG 120

QY 41 GlnLeuArgGlnArgGlnValaIleAspLeuTyraenGlyMetCysLeuGlnGlnIleProAla 60
 DB 121 CAGCTCCGCGCAAGGGAGGCTGCTGAGCTGTATTAATGATGATGCTTACAAAGGCCAGCA 180

QY 61 GlyValProGlnIleArgAspGlnIleSerProGlnIleAlaenValIleProGlnIleThrProGlnIle 80
 DB 191 GGAAGTCCCTGCTGAGAGCGAGCCCTGGGCGCAAGTATTCGGGCTACCTGGAGATC 240

QY 81 ProGlnIleArgAspGlnIlePheIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIle 100
 DB 241 CCAAGTCCGAGATGATTCACAAAGAGAAAGGGGAAATGCTAGAGGAAAGCTTTAGAGAG 300

QY 101 SerTPThrProAsnTyrlsGlnIleCysSerTPSerSerLeuAsnTyrlsIleAspLeu 120
 DB 301 TCCTGAGACCCCACTACAAAGCAGTGTTCATGAGATTCATTAATATGATGATGATCTT 360

QY 121 GlyIleIleAlaGlnCysThrPheThrIleMetIleGlnIleSerSerAlaLeuArgValleu 140
 DB 361 GGAATAATTCGAGATGTACATTTCAAGATGCGTTCAATATGCTTCAAGAGATTGG 420

QY 141 PheSerGlnIleSerLeuArgLeuIleCysArgAsnAlaCysCysGlnIleArgTPThrPheThr 160
 DB 421 TTCATGCTCTCTCTGCTTAAATGCAAAATGCAATGCTGCTGAGGATGATTTGACAA 480

QY 161 PheAsnGlnIleAlaGlnCysSerGlnIleProLeuProIleGlnIleIleIleIleIleIleIle 180
 DB 481 TTCATGAGAGCTGAGATGTTCAAGACCTCTCCCATTTGAAGCTATATTTATTTGAGCAA 540

QY 181 GlySerProGlnIleMetAsnSerThrIleAsnIleIleIleIleIleIleIleIleIleIleIle 200
 DB 541 GGAACCCCTGAAATGATTCACAAATTAATTCATTCGCACTTCTGCTGAGAGACTT 600

QY 201 CysGlnIleIleGlnIleAlaGlnIleValaIleAspValaIleIleIleIleIleIleIleIle 220
 DB 601 TGTGAAGAAATTCGCTGAGATTCATGATGATGATGATGATGATGATGATGATGATGAT 660

QY 221 TyrProIleGlnIleAspAlaSerThrGlnIleIleIleIleIleIleIleIleIleIleIle 240
 DB 661 TACCAAAAGAGAGATGCTTCTACATGATGATGATGATGATGATGATGATGATGATGAT 720

QY 241 LeuProIle 243
 DB 721 CTACCAAAA 729

RESULT 3
 AR454024 837 bp DNA linear PAT 20-FEB-2004
 LOCUS Sequence 512 from patent US 6680197.
 DEFINITION AR454024
 ACCESSION AR454024
 VERSION AR454024.1 GI:42686814
 KEYWORDS

SOURCE Unknown.
 ORGANISM Unknown.
 UNCLASIFIED.
 1 (bases 1 to 837)
 REFERENCE Jiang, Y., Dillon, D.C., Mitcham, J.L., Xu, J., Harlocker, S.L.,
 AUTHORS Hepler, W.T. and Henderson, R.A.
 TITLE Compositions and methods for the therapy and diagnosis of breast
 cancer
 JOURNAL Patent: US 6680197-A 512 20-JAN-2004;
 FEATURES Location/Qualifiers
 1..837
 source /organism="Unknown"
 /mol_type="genomic DNA"

ORIGIN
 Alignment Scores: 5.46e-96 Length: 837
 Pred. No.:

Score: 1301.00 Matches: 243
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 6 Gaps: 0

US-10-063-734-122 (1-243) x AR454024 (1-837)

QY 1 MetArgProGlnIleProAlaIleSerProGlnIleArgGlnIleValaIleLeuLeuLeu 20
 DB 106 ATGCAACCCCAAGAGGCGCCGCTCTCCCGCAGCGCTCCGCGCTCTCTGCTCTCTG 165

QY 21 LeuLeuGlnLeuProAlaProSerSerAlaSerGlnIleProIleGlnIleVala 40
 DB 166 CTGCTGCAAGCTGCGCCGCGCTGAGCGCTCTGAGATCCCAAGGGAGCAAAAGGCG 225

QY 41 GlnLeuArgGlnArgGlnValaIleAspLeuTyraenGlyMetCysLeuGlnGlnIleProAla 60
 DB 226 CAGCTCCGCGCAAGGGAGGCTGCTGAGCTGTATTAATGATGATGCTTACAAAGGCCAGCA 285

QY 61 GlyValProGlnIleArgAspGlnIleSerProGlnIleAlaenValIleProGlnIleThrProGlnIle 80
 DB 286 GGAAGTCCCTGCTGAGAGCGAGCCCTGGGCGCAAGTATTCGGGCTACCTGGAGATC 345

QY 81 ProGlnIleArgAspGlnIlePheIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIle 100
 DB 346 CCAAGTCCGAGATGATTCACAAAGAGAAAGGGGAAATGCTAGAGGAAAGCTTTAGAGAG 405

QY 101 SerTPThrProAsnTyrlsGlnIleCysSerTPSerSerLeuAsnTyrlsIleAspLeu 120
 DB 406 TCCTGAGACCCCACTACAAAGCAGTGTTCATGAGATTCATTAATATGATGATGATCTT 465

QY 121 GlyIleIleAlaGlnCysThrPheThrIleMetIleGlnIleSerSerAlaLeuArgValleu 140
 DB 466 GGAATAATTCGAGATGTACATTTCAAGATGCGTTCAATATGCTTCAAGAGATTGG 525

QY 141 PheSerGlnIleSerLeuArgLeuIleCysArgAsnAlaCysCysGlnIleArgTPThrPheThr 160
 DB 526 TTCATGCTCTCTCTGCTTAAATGCAAAATGCAATGCTGCTGAGGATGATTTGACAA 585

QY 161 PheAsnGlnIleAlaGlnCysSerGlnIleProLeuProIleGlnIleIleIleIleIleIleIle 180
 DB 586 TTCATGAGAGCTGAGATGTTCAAGACCTCTCCCATTTGAAGCTATATTTATTTGAGCAA 645

QY 181 GlySerProGlnIleMetAsnSerThrIleAsnIleIleIleIleIleIleIleIleIleIleIle 200
 DB 646 GGAACCCCTGAAATGATTCACAAATTAATTCATTCGCACTTCTGCTGAGAGACTT 705

QY 201 CysGlnIleIleGlnIleAlaGlnIleValaIleAspValaIleIleIleIleIleIleIleIle 220
 DB 706 TGTGAAGAAATTCGCTGAGATTCATGATGATGATGATGATGATGATGATGATGATGAT 765

QY 221 TyrProIleGlnIleAspAlaSerThrGlnIleIleIleIleIleIleIleIleIleIleIle 240
 DB 766 TACCAAAAGAGAGATGCTTCTACATGATGATGATGATGATGATGATGATGATGATGAT 825

QY 241 LeuProIle 243
 DB 826 CTACCAAAA 834

RESULT 4
 AR454025 837 bp DNA linear PAT 20-FEB-2004
 LOCUS Sequence 513 from patent US 6680197.
 DEFINITION AR454025
 ACCESSION AR454025
 VERSION AR454025.1 GI:42686815
 KEYWORDS

SOURCE Unknown.
 ORGANISM Unknown.
 UNCLASIFIED.
 1 (bases 1 to 837)
 REFERENCE Jiang, Y., Dillon, D.C., Mitcham, J.L., Xu, J., Harlocker, S.L.,
 AUTHORS Hepler, W.T. and Henderson, R.A.

Appendix A

Appendix B

TITLE Compositions and methods for the therapy and diagnosis of breast

JOURNAL Cancer

Patent: US 6680197-A 513 20-JAN-2004;

FEATURES Location/Qualifiers

SOURCE 1..837

/organism="unknown"

/mol_type="genomic DNA"

ORIGIN

Alignment Scores:

Pred. No.:	5..46e-96	Length:	837
Score:	1301.00	Matches:	243
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	6	Gaps:	0

US-10-063-734-122 (1-243) x AR454025 (1-837)

QY 1 MetatgProglnglyProalalaserProglnglyleuLeuLeu 20
 DB 106 ATGCGACCCAGGCGCCCGCTCCCGCAGCGGCTCCGCTCCTGCTCTG 165
 QY 21 LeuLeuGluLeuProalalaserSerSerAlaserGluLeuProlysglylysglyly 40
 DB 166 CTGCTGACGCTGCGCGCGCTGAGCGCTCTGAGATCCCGAGGGAAGCAAGGCG 225
 QY 41 GlnLeuArgGlnArgGlnValValAspLeuTyraGlnGlyMetCysLeuGlnGlyProAla 60
 DB 226 CAGCTCCGAG 285
 QY 61 GlyValProglnglylyProalalaserProglnglylyleuLeuLeu 80
 DB 286 GAGTGCCTGCTGAG 345
 QY 81 ProglnglylyProalalaserSerSerAlaserGluLeuProlysglylysglyly 100
 DB 346 CAGGTCGAG 405
 QY 101 SerTrpThrProalalaserSerSerAlaserGluLeuProlysglylysglyly 120
 DB 406 TCCTGAGACCCAGGCGCCCGCTGAGCGCTCTGAGATCCCGAGGGAAGCAAGGCG 465
 QY 121 GlyValLeuLeuGluLeuProalalaserSerSerAlaserGluLeuProlysglyly 140
 DB 466 GAGGAAATTCGAG 525
 QY 141 PheSerGlySerLeuArgLeuValValAspLeuTyraGlnGlyMetCysLeuGlnGly 160
 DB 526 TTGAGTGCCTGAG 585
 QY 161 PheAsnGlyValGluCysSerGlyProLeuProlysglylysglyly 180
 DB 586 TTCAATGAGCTGATGTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 645
 QY 181 GlySerProglnglylyProalalaserSerSerAlaserGluLeuProlysglyly 200
 DB 646 GAGGAAATTCGAG 705
 QY 201 CysGluGlyLeuGluValValAspLeuTyraGlnGlyMetCysLeuGlnGly 220
 DB 706 TGTAAAGAAATTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 765
 QY 221 TyrProlysglylyProalalaserSerSerAlaserGluLeuProlysglylysglyly 240
 DB 766 TACCAAAAG 825
 QY 241 LeuProlysglyly 243
 DB 826 CTACCAAAA 834

RESULT 5
AX092390

LOCUS AX092390 1257 bp DNA linear PAT 21-MAR-2001

DEFINITION Sequence 121 from Patent WO0116318.

ACCESSION AX092390

VERSION AX092390.1 GI:13444509

KEYWORDS

SOURCE

ORGANISM

AUTHORS

TITLE

JOURNAL

FEATURES

SOURCE

Location/Qualifiers

1..1257

/organism="Homo sapiens"

/mol_type="unassigned DNA"

/db_xref="taxon:9606"

Alignment Scores:

Pred. No.:	8..65e-96	Length:	1257
Score:	1301.00	Matches:	243
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	6	Gaps:	0

US-10-063-734-122 (1-243) x AX092390 (1-1257)

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 QY 21 LeuLeuGluLeuProalalaserSerSerAlaserGluLeuProlysglylysglyly 40
 DB 198 CTGCTGACGCTGCGCGCGCTGAGCGCTCTGAGATCCCGAGGGAAGCAAGGCG 257
 QY 41 GlnLeuArgGlnArgGlnValValAspLeuTyraGlnGlyMetCysLeuGlnGlyProAla 60
 DB 258 CAGCTCCGAG 317
 QY 61 GlyValProglnglylyProalalaserProglnglylyleuLeuLeu 80
 DB 318 GAGTGCCTGCTGAG 377
 QY 81 ProglnglylyProalalaserSerSerAlaserGluLeuProlysglylysglyly 100
 DB 378 CAGGTCGAG 437
 QY 101 SerTrpThrProalalaserSerSerAlaserGluLeuProlysglylysglyly 120
 DB 438 TCCTGAGACCCAGGCGCCCGCTGAGCGCTCTGAGATCCCGAGGGAAGCAAGGCG 497
 QY 121 GlyValLeuLeuGluLeuProalalaserSerSerAlaserGluLeuProlysglyly 140
 DB 498 GAGGAAATTCGAG 557
 QY 141 PheSerGlySerLeuArgLeuValValAspLeuTyraGlnGlyMetCysLeuGlnGly 160
 DB 558 TTCAATGAGCTGATGTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 617
 QY 161 PheAsnGlyValGluCysSerGlyProLeuProlysglylysglyly 180
 DB 618 TGTAAAGAAATTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 677
 QY 181 GlySerProglnglylyProalalaserSerSerAlaserGluLeuProlysglylysglyly 200
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